



ILSM

INDEPENDENT LINEAR SYNCHRONOUS MOTORS
MECHATRONIC TRANSFER SYSTEM

IN PARTNERSHIP WITH

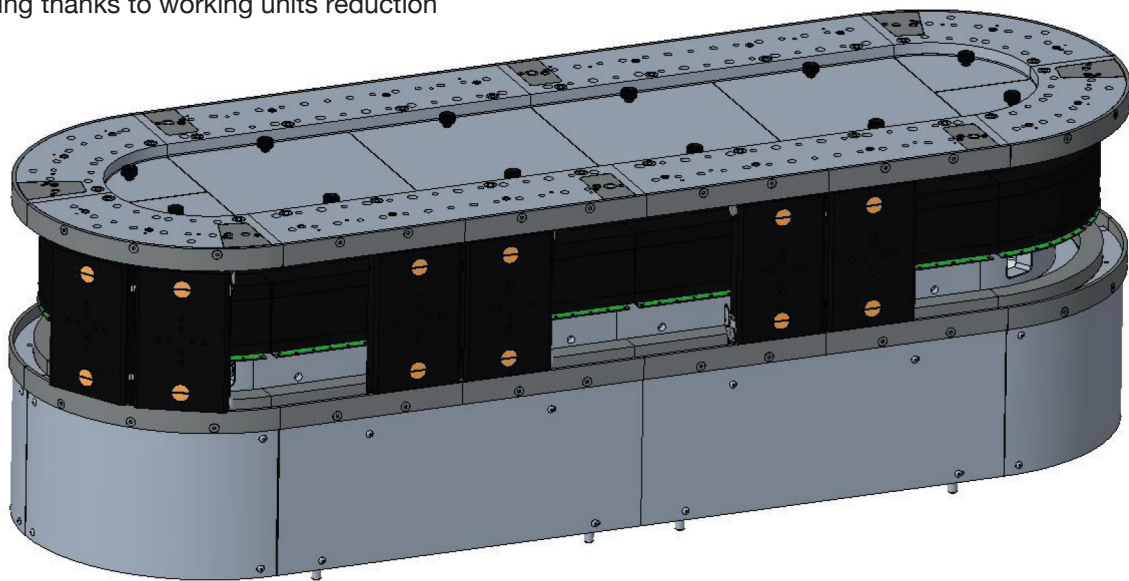


PRODUCT DESCRIPTION

ILSM - Independent Linear Synchronous Motors - is a comprehensive full direct drive mechatronic solution, based on independent carriers, operated by linear motors. The motion control - composed by linear motors, feedback devices, drives, control and software motion libraries - is designed and manufactured by **MOTOR POWER COMPANY** and allocated in a modular mechanical equipment designed by **A UNO TEC**. This skills union has allowed the achievement of an independent, flexible and settable movement that provides unprecedented benefits compared to any traditional motion system.

FEATURES AND BENEFITS

- › Customizable length and shape
- › Rise in productivity without affecting machine footprint
- › Process flow optimization
- › Maximization of efficiency in productivity
- › Flexibility for future implementations on the machine
- › Cost cutting thanks to working units reduction
- › Settable acceleration and deceleration rates, ideal for fragile products
- › Customizable motion speed
- › Fast change of setup
- › Easy-low maintenance, compared to traditional mechanical transfer
- › Compatibility with every PLC



MORE FEATURES

- › Free mobility for one or more carriers;
- › Absolute carriers positioning;
- › Arbitrary system length and carriers number;
- › Individual and synchronized carriers movement;
- › Acceleration/deceleration, positioning and constant force over the entire conveyor system;
- › Material transport and processing on curves;
- › No moving cables.

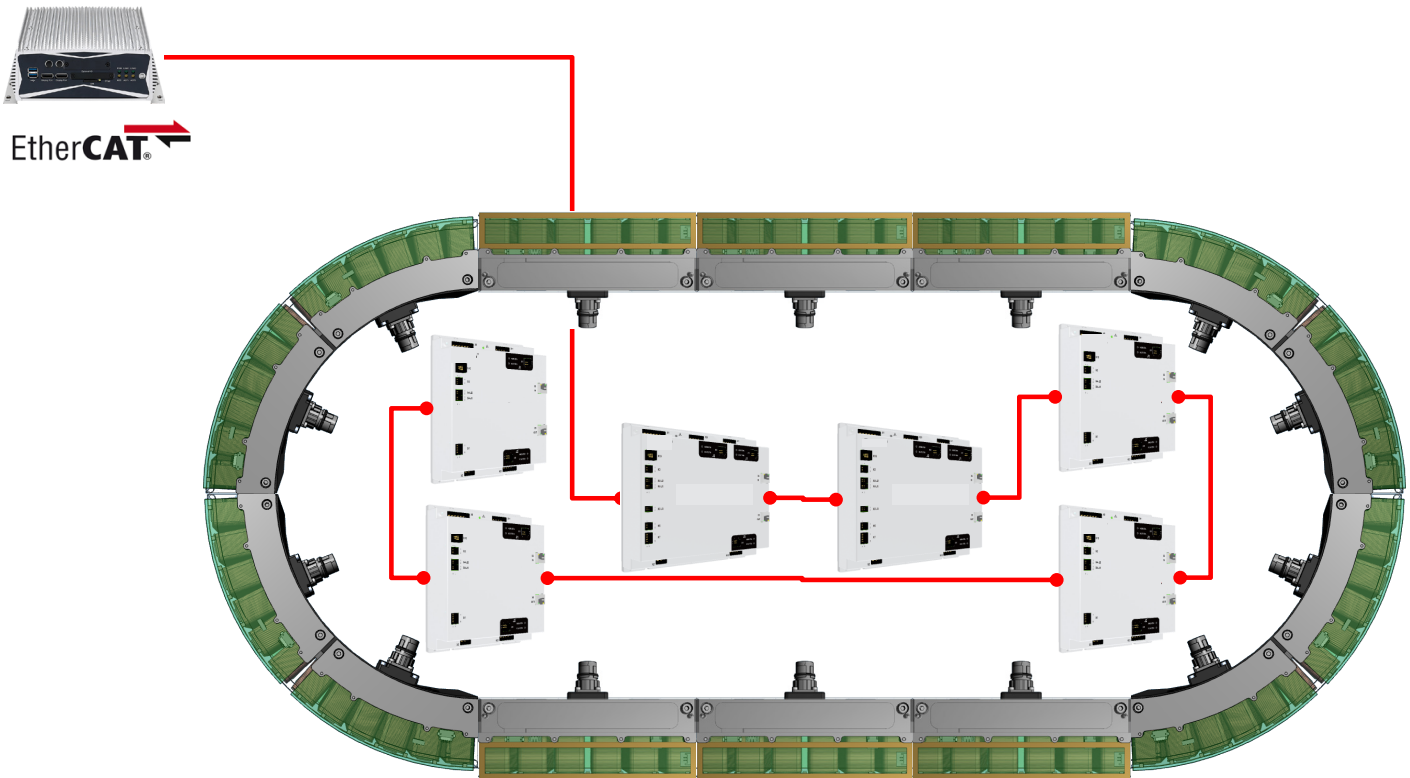
SEE IT BEFORE IT HAPPENS

Independent Linear Synchronous Motors

TECHNICAL DATA

- › Continuous force straight (F_{nom}) 120N
- › Maximum force straight (F_{max}) 240N
- › Curve radius: 212 mm
- › Module length: 500 mm
- › Pallet length: 120 mm
- › Payload: 15 Kg
- › Maximum acceleration: 15 m/s²
- › Nominal speed: 2 m/s
- › Accuracy < 0,5 mm
- › Repeatability < 0,1 mm
- › Feedback: absolute magnetic encoder
- › Integrated RFID technology in any position
- › STO SIL3
- › 230VAC three phases

MECHATRONIC ARCHITECTURE



- › Industrial PC Win based
- › Codesys RunTime
- › EtherCAT communication with Drive (500µS Sync Time)
- › PlcOpen library owned by Motor Power Company
- › ILSM Motion library owned by Motor Power Company



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**MOTOR
POWER**
COMPANY

motorpowerco.com

MOTORS

MOTION CONTROL

MECHATRONICS

**MOTOR
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Approved system integrator


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